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| **APPENDIX 2**  **Data Layers and Sources for Major Event Types** | | | | |
| **Data Description** | **Source** | **Map Service or download location** | **Available as .kml/z (Y/N and location)** | **Metadata location** |
| **Base Map** | | | |  |
| Transportation (roads, trains, etc) | States GIS or HSIP Freedom | States: <http://www.mass.gov/mgis/giswww.htm>  HSIN Geospatial Information System (<https://government.hsin.gov/sites/gis/RDC.aspx>)  Helpdesk for HSIN username/PW: 1-866-430-0162 | Possibly through States  HSIP layers available as WMS, WFS, MapServer, KMLServer and REST at <https://gii.dhs.gov/ServicesCatalog.aspx>. HSIN username/PW required to access this site. |  |
| Hydrography | States GIS or HSIP Freedom | States: <http://www.mass.gov/mgis/giswww.htm>  HSIN Geospatial Information System (<https://government.hsin.gov/sites/gis/RDC.aspx>)  Helpdesk for HSIN username/PW: 1-866-430-0162 | Possibly through States  HSIP layers available as WMS, WFS, MapServer, KMLServer and REST at <https://gii.dhs.gov/ServicesCatalog.aspx>. HSIN username/PW required to access this site. |  |
| Boundaries (towns, counties, states, etc) | States GIS or HSIP Freedom | States: <http://www.mass.gov/mgis/giswww.htm>  HSIN Geospatial Information System (<https://government.hsin.gov/sites/gis/RDC.aspx>)  Helpdesk for HSIN username/PW: 1-866-430-0162 | Possibly through States  HSIP layers available as WMS, WFS, MapServer, KMLServer and REST at <https://gii.dhs.gov/ServicesCatalog.aspx>. HSIN username/PW required to access this site. |  |
| Critical infrastructure | States GIS or HSIP Freedom | States: <http://www.mass.gov/mgis/giswww.htm>  HSIN Geospatial Information System (<https://government.hsin.gov/sites/gis/RDC.aspx>)  Helpdesk for HSIN username/PW: 1-866-430-0162 | Possibly through States  HSIP layers available as WMS, WFS, MapServer, KMLServer and REST at <https://gii.dhs.gov/ServicesCatalog.aspx>. HSIN username/PW required to access this site. |  |
| Shelter location | National Shelter System or event-specific | FEMA GIS or American Red Cross | No, unless requested |  |
| Staging areas | Event-specific | FEMA Logistics through GIS | No, unless requested |  |
| Deployed teams and resources | Event-specific | FEMA GIS | No, unless requested |  |
| Emergency Operations Centers | States GIS, HSIP Freedom or event-specific | States: <http://www.mass.gov/mgis/giswww.htm>  HSIN Geospatial Information System (<https://government.hsin.gov/sites/gis/RDC.aspx>)  Helpdesk for HSIN username/PW: 1-866-430-0162  FEMA GIS | Possibly through States  HSIP layers available as WMS, WFS, MapServer, KMLServer and REST at <https://gii.dhs.gov/ServicesCatalog.aspx>. HSIN username/PW required to access this site.  Event specific as requested |  |
| Damaged areas | Event-specific | FEMA GIS | No, unless requested |  |
| **Hurricane** | | | |  |
| Pre-event surge | USACE | <http://www.nae.usace.army.mil/projects/hurricanestudies.htm> | No |  |
| Post-event surge | NOAA | <http://www.nhc.noaa.gov/ftp/> | No |  |
| Predicted precipitation | NOAA | <ftp://ftp.hpc.ncep.noaa.gov/shapefiles/qpf> | Yes - <http://www.hpc.ncep.noaa.gov/kml/kmlproducts.php> |  |
| National Infrastructure Simulation and Analysis Center (NISAC) impacts to critical infrastructure maps | NISAC | HSIN Emergency Management Portal or NIIC Tactical Portal:  [nicc@dhs.gov](mailto:nicc@dhs.gov) or 202-282-9201  Products are For Official Use Only | No |  |
| Hurricane track, forecast, watches/warnings, windfields, error cone, etc | NOAA NWS National Hurricane Center | <http://www.nhc.noaa.gov/gis/> | Rest Services: <http://gis.srh.noaa.gov/ArcGIS/rest/services>  Google Earth available at: <http://www.nhc.noaa.gov/gis/> |  |
| Hurricane forecast track and error cone | Hurrevac | Installed software, request access at [www.hurrevac.com](http://www.hurrevac.com) |  |  |
| Power status | State, DOE | Through State Emergency Operations Center or FEMA Regional Response Coordination Center (RRCC), GIS | No |  |
| NWS Watches/Warnings | NOAA | <http://www.nws.noaa.gov/regsci/gis/shapefiles/> | Yes - <http://www.srh.noaa.gov/gis/kml/> |  |
| Weather Radar | NWS | N/A | <http://www.nws.noaa.gov/gis/otherpage.html> |  |
| Hurricane Evacuation Routes | FEMA | <http://gis.fema.gov/DataFeeds.html> | <http://gis.fema.gov/DataFeeds.html> |  |
| **Flood** | | | |  |
| USGS river gauges – real time | USGS | N/A | <http://waterwatch.usgs.gov/kml.html> |  |
| NWS river gauges - FORECASTED | NWS | N/A | <http://water.weather.gov/ahps/worldfiles/ahps_national_fcst.kmz> |  |
| NWS river gauges - OBSERVED | NWS | <http://www.weather.gov/ahps/shapefiles/national_shapefile_obs.tgz> | <http://water.weather.gov/ahps/worldfiles/ahps_national_obs.kmz> |  |
| Significant River Flood Outlook | NWS | <ftp://ftp.hpc.ncep.noaa.gov/shapefiles/fop> | Yes -<http://www.hpc.ncep.noaa.gov/kml/kmlproducts.php> |  |
| Flash Flood Guidance | NWS | <http://www.srh.noaa.gov/rfcshare/ffg_download/ffg_download.php> | No |  |
| Rainfall amounts | NWS | <ftp://ftp.hpc.ncep.noaa.gov/shapefiles/qpf> | Yes - <http://www.hpc.ncep.noaa.gov/kml/kmlproducts.php> |  |
| NWS Watches/Warnings | NOAA | <http://www.nws.noaa.gov/regsci/gis/shapefiles/> | Yes - <http://www.srh.noaa.gov/gis/kml/> |  |
| FEMA Digital Flood Insurance Rate Map (DFIRM) floodmaps (incomplete) | FEMA | <https://hazards.fema.gov/femaportal/wps/portal/NFHLWMS> | <https://hazards.fema.gov/femaportal/wps/portal/NFHLWMSkmzdownload> |  |
| Q3 data (incomplete and less accurate) | FEMA | [www.geodata.gov](http://www.geodata.gov), FEMA GIS | No |  |
| **Winter Storm** | | | |  |
| Power status | State, DOE | Through State Emergency Operations Center or FEMA Regional Response Coordination Center (RRCC), GIS | No |  |
| Snow gauges | NWS | N/A | <ftp://ftp.wcc.nrcs.usda.gov/data/water/wcs/earth/snotelwithlabels.kmz> |  |
| Ice storm forecast (probabilities of ice deposition over .25 inch) | NWS | <http://www.hpc.ncep.noaa.gov/wwd/winter_wx.shtml> | <http://www.hpc.ncep.noaa.gov/kml/kmlproducts.php#winwx> |  |
| NWS Watches/Warnings | NOAA | <http://www.nws.noaa.gov/regsci/gis/shapefiles/> | Yes - <http://www.srh.noaa.gov/gis/kml/> |  |
| **Earthquake** | | | |  |
| Power status | State, DOE | Through State Emergency Operations Center or FEMA Regional Response Coordination Center (RRCC), GIS | No |  |
| Earthquake epicenter | USGS | N/A | <http://earthquake.usgs.gov/earthquakes/catalogs/eqs7day-age.kmz> |  |
| Shakemaps | USGS | <http://earthquake.usgs.gov/earthquakes/shakemap/> - chose event, click on “Downloads” link and look under “GIS Files” | <http://earthquake.usgs.gov/earthquakes/shakemap/> - chose event, click on “Downloads” link and look under “GIS Files” |  |
| **Terrorism** | | | |  |
| IMAAC aerial dispersion models | IMAAC | <https://imaacweb.llnl.gov/web/signIn.html> (requires login) | No |  |
| Nuclear deposition | FRMAC | From Federal Radiological Monitoring and Assessment Center (FRMAC) through FEMA GIS | No |  |